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APPLICANT : MITSUI PETROCHEM IND LTD;

INVENTOR : ERIGUCHI MASAO;

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TITLE : THERMOPLASTIC RESIN FOAM AND ITS PRODUCTION

ABSTRACT : PROBLEM TO BE SOLVED: To efficiently produce a thermoplastic resin foam which has beautiful surface outward appearance and excellent mechanical strength and minute uniform bubbles.

SOLUTION: A thermoplastic resin foam having minute uniform bubbles is produced by a gas dissolving process in which a resin composition consisting of 50-99 pts.wt. styrene-based resin and 1-50 pts.wt. polypropylene resin is used and 0.1-30 pts.wt. inert gas in a supercritical state being a foaming agent is added to a molten thermoplastic resin and the completely compatible state of the thermoplastic resin and the inert gas is formed through an extruder, a cooling process for lowering the temperature of the molten resin while a pressurization state is left maintained, a nucleus-producing process for generating many bubble nucleuses by rapid pressure drop and a foaming control process for controlling the diameter of bubbles.

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